### **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/564.744A
Source:	IFWO.
Date Processed by STIC:	10/27/06

# ENTERED



**IFWO** 

RAW SEQUENCE LISTING DATE: 10/27/2006
PATENT APPLICATION: US/10/564,744A TIME: 12:09:31

Input Set: A:\Sequence Listing Ascii.txt
Output Set: N:\CRF4\10272006\J564744A.raw

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3 <110> APPLICANT: The Massachussetts General Hospital Corporation
      4 Gardella, Thomas J.
      6 <120> TITLE OF INVENTION: Conformationally Constrained Parathyroid Hormone (PTH)
      8 <130> FILE REFERENCE: 0609.516PC01
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/564,744A
C--> 11 <141> CURRENT FILING DATE: 2006-01-17
     13 <150> PRIOR APPLICATION NUMBER: US 60/487,589
     14 <151> PRIOR FILING DATE: 2003-07-17
                                                         ser.6
     16 <160> NUMBER OF SEQ ID NOS: 32
     18 <170> SOFTWARE: PatentIn version 3.2
     20 <210> SEQ ID NO: 1
     21 <211> LENGTH: 14
     22 <212> TYPE: PRT
     23 <213 > ORGANISM: Artificial sequence
     25 <220> FEATURE:
     26 <223> OTHER INFORMATION: PTH Peptide
     29 <220> FEATURE:
     30 <221> NAME/KEY: misc feature
    31 <222> LOCATION: (1)..(1)
     32 <223> OTHER INFORMATION: X is an Alpha-Helix Stabilizing Residue
     34 <220> FEATURE:
     35 <221> NAME/KEY: misc feature
     36 <222> LOCATION: (2)..(2)
     37 <223> OTHER INFORMATION: X is Trp, Bpa, Arg or Val
     39 <220> FEATURE:
     40 <221> NAME/KEY: misc feature
     41 <222> LOCATION: (3)..(3)
     42 <223> OTHER INFORMATION: X is an Alpha-Helix Stabilizing Residue
     44 <220> FEATURE:
     45 <221> NAME/KEY: misc_feature
     46 <222> LOCATION: (8)..(8)
     47 <223> OTHER INFORMATION: X is Met or Nle
     49 <220> FEATURE:
     50 <221> NAME/KEY: misc_feature
     51 <222> LOCATION: (10)..(10)
     52 <223> OTHER INFORMATION: X is Gln, Deg or Asn
    54 <220> FEATURE:
     55 <221> NAME/KEY: misc_feature
     56 <222> LOCATION: (11)..(11)
     57 <223> OTHER INFORMATION: X is Har or Leu
     59 <220> FEATURE:
     60 <221> NAME/KEY: misc feature
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61 <222> LOCATION: (12)..(12)/

DATE: 10/27/2006

TIME: 12:09:31

#### Input Set : A:\Sequence Listing Ascii.txt Output Set: N:\CRF4\10272006\J564744A.raw 62 <223> OTHER INFORMATION: X is an Alpha-Helix Stabilizing Residue, Ala or Gly 64 <220> FEATURE: 65 <221> NAME/KEY: misc feature 66 <222> LOCATION: (14)..(14) 67 <223> OTHER INFORMATION: X is an Alpha-Helix Stabilizing Residue, Trp, Tyr or His 69 <400> SEQUENCE: 1 W--> 71 Xaa Xaa Kaa Glu Ile Gln Leu Xaa His Xaa Xaa Xaa Lys Xaa · ... 5 72 1 75 <210> SEQ ID NO: 2 76 <211> LENGTH: 13 77 <212> TYPE: PRT 78 <213> ORGANISM: Artificial sequence 80 <220> FEATURE: 81 <223> OTHER INFORMATION: PTH Peptide 84 <220> FEATURE: 85 <221> NAME/KEY: misc feature 86 <222> LOCATION: (1)..(1) 87 <223> OTHER INFORMATION: X is an Alpha-Helix Stabilizing Residue 89 <220> FEATURE: 90 <221> NAME/KEY: misc feature 91 <222> LOCATION: (2)..(2) 92 <223> OTHER INFORMATION: X is Trp, Bpa, Arg or Val 94 <220> FEATURE: 95 <221> NAME/KEY: misc feature 96 <222> LOCATION: (3)..(3) 97 <223> OTHER INFORMATION: X is an Alpha-Helix Stabilizing Residue 99 <220> FEATURE: 100 <221> NAME/KEY: misc\_feature 101 <222> LOCATION: (8)..(8) 102 <223> OTHER INFORMATION: X is Met or Nle 104 <220> FEATURE: 105 <221> NAME/KEY: misc feature 106 <222> LOCATION: (10)..(10) 107 <223> OTHER INFORMATION: X is Gln, Deg or Asn 109 <220> FEATURE: 110 <221> NAME/KEY: misc feature 111 <222> LOCATION: (11)..(11) 112 <223> OTHER INFORMATION: X is Har or Leu 114 <220> FEATURE: 115 <221> NAME/KEY: misc feature 116 <222> LOCATION: (12)..(12) 117 <223> OTHER INFORMATION: X is an Alpha-Helix Stabilizing Residue, Ala or Gly 119 <400> SEQUENCE: 2 W--> 121 Xaa Xaa Xaa Glu Ile Gln Leu Xaa His Xaa Xaa Xaa Lys 122 1 5 125 <210> SEO ID NO: 3 126 <211> LENGTH: 12 127 <212> TYPE: PRT 128 <213> ORGANISM: Artificial sequence

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/564,744A

## RAW SEQUENCE LISTING DATE: 10/27/2006 PATENT APPLICATION: US/10/564,744A TIME: 12:09:31

Input Set: A:\Sequence Listing Ascii.txt
Output Set: N:\CRF4\10272006\J564744A.raw

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130 <220> FEATURE:
    131 <223 > OTHER INFORMATION: PTH Peptide
    134 <220> FEATURE:
    135 <221> NAME/KEY: misc feature
    136 <222> LOCATION: (1)..(1)
    137 <223> OTHER INFORMATION: X is an Alpha-Helix Stabilizing Residue
    139 <220> FEATURE:
    140 <221> NAME/KEY: misc_feature
    141 <222> LOCATION: (2)..(2)
    142 <223> OTHER INFORMATION: X is Trp, Bpa, Arg or Val
    144 <220> FEATURE:
    145 <221> NAME/KEY: misc_feature
    146 <222> LOCATION: (3)..(3)
    147 <223> OTHER INFORMATION: X is an Alpha-Helix Stabilizing Residue
    149 <220> FEATURE:
    150 <221> NAME/KEY: misc feature
    151 <222> LOCATION: (8)..(8)
    152 <223> OTHER INFORMATION: X is Met or Nle
    154 <220> FEATURE:
    155 <221> NAME/KEY: misc_feature
    156 <222> LOCATION: (10)..(10)
    157 <223> OTHER INFORMATION: X is Gln, Deg or Asn
    159 <220> FEATURE:
    160 <221> NAME/KEY: misc_feature
    161 <222> LOCATION: (11)..(11)
    162 <223> OTHER INFORMATION: X is Har or Leu
    164 <220> FEATURE:
    165 <221> NAME/KEY: misc_feature
    166 <222> LOCATION: (12)..(12)
    167 <223> OTHER INFORMATION: X is an Alpha-Helix Stabilizing Residue, Ala or Gly
    169 <400> SEQUENCE: 3
W--> 171 Xaa Xaa Xaa Glu Ile Gln Leu Xaa His Xaa Xaa Xaa
    172 1
    175 <210> SEQ ID NO: 4
    176 <211> LENGTH: 11
    177 <212> TYPE: PRT
    178 <213> ORGANISM: Artificial sequence
    180 <220> FEATURE:
    181 <223> OTHER INFORMATION: PTH Peptide
    184 <220> FEATURE:
    185 <221> NAME/KEY: misc feature
    186 <222> LOCATION: (1)..(1)
    187 <223> OTHER INFORMATION: X is an Alpha-Helix Stabilizing Residue
    189 <220> FEATURE:
    190 <221> NAME/KEY: misc feature
    191 <222> LOCATION: (2)..(2)
    192 <223> OTHER INFORMATION: X is Trp, Bpa, Arg or Val
    194 <220> FEATURE:
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195 <221> NAME/KEY: misc\_feature

#### RAW SEQUENCE LISTING

DATE: 10/27/2006 TIME: 12:09:31

PATENT APPLICATION: US/10/564,744A

Input Set: A:\Sequence Listing Ascii.txt
Output Set: N:\CRF4\10272006\J564744A.raw

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196 <222> LOCATION: (3)..(3)
     197 <223> OTHER INFORMATION: X is an Alpha-Helix Stabilizing Residue
     199 <220> FEATURE:
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     201 <222> LOCATION: (8)..(8)
     202 <223> OTHER INFORMATION: X is Met or Nle
    204 <220> FEATURE:
    205 <221> NAME/KEY: misc feature
    206 <222> LOCATION: (10)..(10)
    207 <223> OTHER INFORMATION: X is Gln, Deg or Asn
     209 <220> FEATURE:
     210 <221> NAME/KEY: misc_feature
     211 <222> LOCATION: (11)..(11)
     212 <223> OTHER INFORMATION: X is Har or Leu-
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W--> 216 Xaa Xaa Xaa Glu Ile Gln Leu Xaa His Xaa Xaa
    217 1
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     221 <231> LENGTH: 10
     222 <212> TYPE: PRT
     223 <213> ORGANISM: Artificial sequence
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    229 <220> FEATURE:
    230 <221> NAME/KEY: misc feature
    231 <222> LOCATION: (1)..(1)
     232 <223> OTHER INFORMATION: X is an Alpha-Helix Stabilizing Residue
    234 <220> FEATURE:
    235 <221> NAME/KEY: misc feature
    236 <222> LOCATION: (2)..(2)
    237 <223 > OTHER INFORMATION: X is Trp, Bpa, Arg or Val
    239 <220> FEATURE:
    240 <221> NAME/KEY: misc_feature
    241 <222> LOCATION: (3)..(3) /
    242 <223> OTHER INFORMATION: X is an Alpha-Helix Stabilizing Residue
    244 <220> FEATURE:
    245 <221> NAME/KEY: misc feature
    246 <222> LOCATION: (8)..(8)
    247 <223> OTHER INFORMATION: X is Met or Nle
    249 <220> FEATURE:
    250 <221> NAME/KEY: misc feature
     251 <222> LOCATION: (10)..(10)
     252 <223> OTHER INFORMATION: X is Gln, Deg or Asn
    254 <400> SEQUENCE: 5
W--> 256 Xaa Xaa Xaa Glu Ile Gln Leu Xaa His Xaa
     260 <210> SEQ ID NO: 6
    261 <211> LENGTH: 21
     262 <212> TYPE: PRT
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## RAW SEQUENCE LISTING PATENT APPLICATION: US/10/564,744A DATE: 10/27/2006 TIME: 12:09:31

Input Set: A:\Sequence Listing Ascii.txt
Output Set: N:\CRF4\10272006\J564744A.raw

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     265 <220> FEATURE:
     266 <223> OTHER INFORMATION: PTH Peptide
     269 <220> FEATURE:
     270 <221> NAME/KEY: misc feature
     271 <222> LOCATION: (1)..(1)
     272 <223> OTHER INFORMATION: X is an Alpha-Helix Stabilizing Residue
     274 <220> FEATURE:
     275 <221> NAME/KEY: misc_feature
     276 <222> LOCATION: (2)..(2)
     277 <223> OTHER INFORMATION: X is Bpa
     279 <220> FEATURE:
     280 <221> NAME/KEY: misc_feature
     281 <222> LOCATION: (3)..(3)
     282 <223> OTHER INFORMATION: X is an Alpha-Helix Stabilizing Residue
     284 <220> FEATURE:
     285 <221> NAME/KEY: misc_feature
     286 <222> LOCATION: (8)..(8)
     287 <223> OTHER INFORMATION: X is Aib, Glm, Deg of Asn
                                                                             granter to the second
     289 <220> FEATURE:
     290 <221> NAME/KEY: misc feature
     291 <222> LOCATION: (10)..(10)
     292 <223> OTHER INFORMATION: X is Met or Nle
     294 <220> FEATURE:
     295 <221> NAME/KEY: misc feature
     296 <222> LOCATION: (11)..(11)
     297 <223> OTHER INFORMATION: X is Har or Leu
     299 <220> FEATURE:
     300 <221> NAME/KEY: misc feature
     301 <222> LOCATION: (12)..(12)
     302 <223> OTHER INFORMATION: X is an Alpha-Helix Stabilizing Residue, Ala or Gly
     304 <220> FEATURE:
     305 <221> NAME/KEY: misc feature
     306 <222> LOCATION: (14)..(14)
     307 <223> OTHER INFORMATION: X is an Alpha-Helix Stabilizing Residue, Trp or His
     309 <220> FEATURE:
     310 <221> NAME/KEY: misc feature
     311 <222> LOCATION: (19)..(19)
     312 <223> OTHER INFORMATION: X is an Alpha-Helix Stabilizing Residue, Lys, Arg or Glu
     314 <220> FEATURE:
     315 <221> NAME/KEY: misc feature
     316 <222> LOCATION: (21)..(21)
     317 <223> OTHER INFORMATION: X is Tyr or Met
     319 <400> SEQUENCE: 6
W--> 321 Xaa Xaa Xaa Glu Ile Gln Leu Xaa His Xaa Xaa Xaa Lys Xaa Leu Ala
     322 1
                         5
W--> 325 Ser Val Xaa Arg Xaa
     329 <210> SEQ ID NO: 7
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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 10/27/2006
PATENT APPLICATION: US/10/564,744A TIME: 12:09:32

Input Set: A:\Sequence Listing Ascii.txt
Output Set: N:\CRF4\10272006\J564744A.raw

#### Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

```
Seq#:1; Xaa Pos. 1, 2/, 3, 8, 10, 11, 12
Seq# 2; Xaa Pos. 1,2,3,8,10,11,12
Seq#:3; Xaa Pos. 1,2,3,8,10,11,12
Seq#:4; Xaa Pos. 1,2,5,8,10,11
Seq#:5; Xaa Pos. 1,2/,3/,8/,1/
Seq#:6; Xaa Pos. 1,2,8,8,10,11,12,14,19,21
Seq#:7; Xaa Pos. 1,2,3,8,10,11,12,14,19
Seg#:8; Xaa Pos. 1,2,3,8,10,11,12,14,19
Seq#:9; Xaa Pos. 1,2,3,8,10,11,12,14
Seq#:10; Xaa Pos. 1,2,3,8,10,11,12,14
Seq#:11; Xaa Pos. 1,2,3,8,10,11,12,14
Seq#:12; Xaa Pos. 1,2,3,8,10,11,12,14
Seq#:13; Xaa Pos. 1,2,3,11
Seq#:14: Xaa Pos. 1,3,11,15
Seq#:15; Xaa Pos. 1,2,4,12,16
Seq#:16; Xaa Pos. 1,2,4,12,16
Seq#:17; Xaa Pos. 1,3,11,15
Seq#:18; Xaa Pos. 1,2,3,11,15
Seq#:19; Xaa Pos. 1,3,11,15
Seq#:20; Xaa Pos. 1,3,11,15
Seq#:21; Xaa Pos. 1,3,11,15
Seq#:22; Xaa Pos. 1,2,3,11,15
Seq#:23; Xaa Pos. 1,3,8,11,15
Seq#:24; Xaa Pos. 1,2,3,8,11,15
Seq#:25; Xaa Pos. 1,2,3,8,11,22
Seq#:28; Xaa Pos. 1,6,9,20
Seq#:29; Xaa Pos. 33
Seq#:31; Xaa Pos. 33
Seq#:32; Xaa Pos. 1,3,8,11,16
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#### VERIFICATION SUMMARY

PATENT APPLICATION: US/10/564,744A TIME: 12:09:32

DATE: 10/27/2006

Input Set: A:\Sequence Listing Ascii.txt
Output Set: N:\CRF4\10272006\J564744A.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:71 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0 L:121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0 L:171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0 L:216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0 L:256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0 L:321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0 L:325 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:16 L:385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0 L:389 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:16 L:449 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0 L:453 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:16 L:508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0 L:567 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0 L:626 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0 L:681 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0 L:716 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:751 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:791 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0 L:831 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0 L:866 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0 L:906 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0 L:941 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0 L:976 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0 L:1011 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0 L:1051 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0 L:1091 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0 L:1136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0 L:1181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0 L:1185 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:16 L:1250 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0 L:1254 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:16 L:1282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:32 L:1290 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (30) SEQUENCE: L:1322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:32 L:1362 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0